

Monitoring Data RecordProject Title: Henderson Western Loop (U-2527) COE Action ID: 199708127Stream Name: UT to Red Bud Creek DWQ Number: 031494City, County and other Location Information: Henderson, Vance County
(Sta. 40+80 to 47+20)

Date Construction Completed:

Water was turned into stream on 6/13/05. Planting was completed on 3/10/06.Monitoring Year: (2) of 5Ecoregion: _____ 8 digit HUC unit 03010102

USGS Quad Name and Coordinates: _____

Rosgen Classification: Proposed E4 Stream TypeLength of Project: 2,592' Urban or Rural: Urban Watershed Size: _____Monitoring DATA collected by: M. Green and J. Young Date: 6/6/07

Applicant Information:

Name: NCDOT Roadside Environmental UnitAddress: 1425 Rock Quarry Road Raleigh, NC 27610Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:

Name: _____

Address: _____

Telephone Number: _____ Email address: _____

Project Status: Complete**Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.):** Level 1 2 3Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3***Permit States:** NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.Section 1. PHOTO REFERENCE SITES*(Monitoring at all levels must complete this section)***Total number of reference photo locations at this site:****13 photo point locations, 2 photos at each****Dates reference photos have been taken at this site:** 6/21/06, 1/10/07, 6/6/07**Individual from whom additional photos can be obtained (name, address, phone):** _____

Other Information relative to site photo reference: _____

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

The stream relocation from Sta. 46+40 to Sta. 47+20 has minimal planted hardwood vegetation surviving due to competition with thick herbaceous vegetation.

Estimated causes, and proposed/required remedial action: The stream relocation from Sta. 46+40 to Sta. 47+20 will be supplementally planted in the Winter 2008.

ADDITIONAL COMMENTS: Stream is highly vegetated with herbaceous vegetation, which includes, lespedeza, cattails, *Juncus* sp., sedge, fennel, woolgrass, and various grasses. Hardwood vegetation included silky dogwood, black willow, sycamore, green ash, tulip poplar, willow oak, and sweetgum. Planting was completed on the stream in March 2006.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The stream is highly stabilized for the Year 2 summer evaluation. The minor bank erosion noted last year located at approx. Sta. 40+90 is stabilized with heavy herbaceous vegetation and warrants no remedial action at this time. All cross vanes are functioning properly except for a cross vane located at approx. Sta. 41+20. This cross vane has a headcut and water piping under the structure. NCDOT will continue to monitor this stream relocation.

6/6/07	Sta. 41+20	Station Number	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?	Water is piping under the crossvane				
Head cut or down cut present?	Headcut				
Bank or scour erosion present?					
Other problems noted?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

UT Red Bud Creek



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)

Year 2 Summer – June 2007

UT Red Bud Creek



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

UT Red Bud Creek



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)

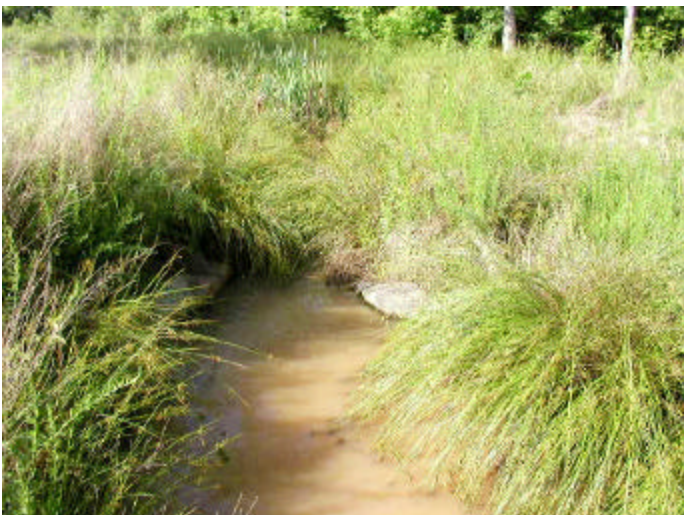


Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

UT Red Bud Creek



Photo Point #10 (Upstream)



Photo Point #10 (Downstream)



Photo Point #11 (Upstream)



Photo Point #11 (Downstream)



Photo Point #12 (Upstream)



Photo Point #12 (Downstream)

UT Red Bud Creek



Photo Point #13 (Upstream)



Photo Point #13 (Downstream)



Cross Vane Located @ Sta. 41+20

Year 2 Summer – June 2007